Ontario

Ministry of Natural Resources

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

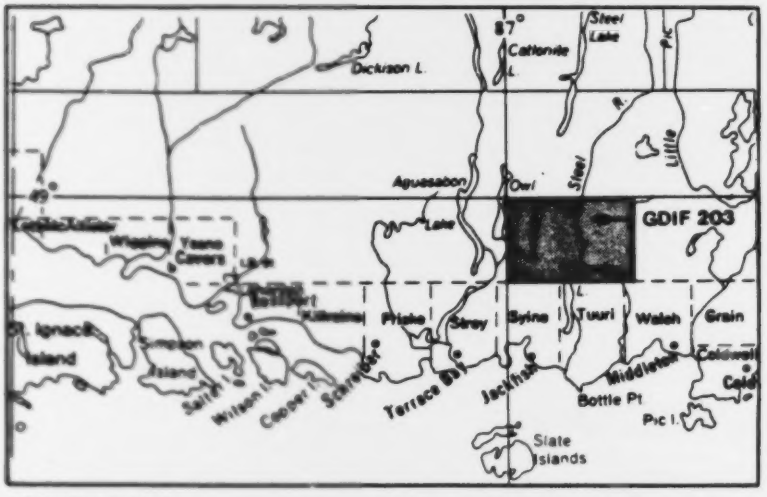
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 203

SANTOY LAKE AREA

DISTRICT OF THUNDER BAY

Compiled by the Staff of
the Resident Geologist's Office
Thunder Bay



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

85-6408/

NTS Number 42 D/15 NW

Mining Claim Map Number G-612 (M-2676)

This project was funded equally by the government of Canada and Ontario under the Northern Ontario Rural Development Agreement (NORDA).

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1985: Santoy Lake Area, District of Thunder Bay; Ontario Geological Survey, Geological Data Inventory Folio 203, compiled by the staff of the Resident Geologist's Office, Thunder Bay, 20 pages and 2 maps.

Original Compilation by: P. Perry

Date	Page Revised	Revised by

Date	Page Revised	Revised by

SANTOY LAKE AREA

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ACCOMPANYING MAPS

Property Location Map - 1

Exploration Data Map - 1

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	P. AUG./84
2	Assessment Files Research Office, Toronto	YES	P. AUG./84
3	ODM General Index; 7 volumes	YES	P. AUG./84
4	Catalogue of Airborne Geophysical Surveys (ODM)	YES	P. AUG./84
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	P. AUG./84
6	ODM Industrial Mineral Reports	NO	P. AUG./84
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)		
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	YES	P. AUG./84
9	Newspaper Clippings File	YES	P. AUG./84
10	GSC Index to Publications	YES	P. AUG./84
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	P. AUG./84
12	OGS Index Maps	YES	P. AUG./84
13	Source Mineral Deposit Records (O.G.S.)		
14	Author - Subject Articles File	YES	P. AUG./84
15	Miscellaneous Papers: ODM & OGS	YES	P. AUG./84
16	ODM Geological Circulars: OGS Study Series	YES	P. AUG./84
17	ODM Preliminary Reports: ODM Bulletins	YES	P. AUG./84
18	ODM – OGS Open File Reports	YES	P. AUG./84
19	OGS Northern Ontario Engineering Geology Terrain Studies	YES	P. AUG./84
20	OGS Aggregate Resources Inventory Papers	NO	P. AUG./84
21	OGS Mineral Potential Maps	YES	P. AUG./84

METALS AND MINERALS REFERENCES LIST

- △ anh. . . . . Anhydrite
- △ ank. . . . . Ankerite
- △ anna . . . . . Annabergite
- △ ap. . . . . Apatite
- △ arg . . . . . Argentite
- △ As . . . . . Arsenic
- △ asp . . . . . Arsenopyrite
- △ asb . . . . . Asbestos
- △ ba. . . . . Barite
- △ be. . . . . Beryl
- △ Bi. . . . . Bismuth
- △ bn . . . . . Bornite
- △ bran . . . . . Brannerite
- △ bruc . . . . . Brucite
- △ Cd . . . . . Cadmium
- △ calc. . . . . Calcite
- △ carb . . . . . Carbonate
- △ cel . . . . . Celestite
- △ cc. . . . . Chalcocite
- △ cp. . . . . Chalcopyrite
- △ ch. . . . . Chert
- △ clay . . . . . Clay
- △ Co . . . . . Cobalt
- △ cob. . . . . Cobaltite
- △ cb. . . . . Columbite
- ▲ Cu . . . . . Copper
- △ cor . . . . . Corundum
- △ dol . . . . . Dolomite
- △ ep. . . . . Epidote
- △ ery . . . . . Erythrite
- △ fel . . . . . Feldspar
- △ fl . . . . . Fluorite (flurospar)
- △ fu. . . . . Fuchsite
- △ gn. . . . . Galena
- △ gt. . . . . Garnet
- △ goe . . . . . Goethite
- ▲ Au . . . . . Gold
- △ gf. . . . . Graphite
- △ gl . . . . . Gravel
- △ gyp. . . . . Gypsum
- △ hem . . . . . Hematite
- △ il . . . . . Ilmenite
- △ Fe . . . . . Iron
- △ IF. . . . . Iron Formation
- △ jas . . . . . Jasper
- △ kaol . . . . . Kaolinite (kaolin)
- △ ky . . . . . Kyanite
- ▲ Pb . . . . . Lead
- △ lim . . . . . Limonite
- △ Li. . . . . Lithium
- △ mgst . . . . . Magnesite
- △ mag . . . . . Magnetite
- △ mc . . . . . Malachite
- △ Mn . . . . . Manganese
- △ mb . . . . . Marble
- △ mar. . . . . Marcasite
- △ ma . . . . . Marl
- △ mi . . . . . Mica
- △ ml . . . . . Millerite
- △ mo . . . . . Molybdenite
- △ Mo . . . . . Molybdenum
- △ mon . . . . . Monazite
- △ ne. . . . . Nephelite (nepheline)
- △ nc. . . . . Niccolite
- △ Ni. . . . . Nickel
- △ Nb . . . . . Niobium
- △ Pd . . . . . Palladium
- △ peat . . . . . Peat
- △ pent . . . . . Pentlandite
- △ Pt. . . . . Platinum
- △ py . . . . . Pyrite
- △ pyl . . . . . Pyrochlore
- △ pyrl . . . . . Pyrolusite
- △ po . . . . . Pyrrhotite
- △ q . . . . . Quartz
- △ qcv . . . . . Quartz carbonate vein
- △ ra. . . . . Radioactive minerals
- △ RE . . . . . Rare Earths
- △ sd. . . . . Sand
- △ sgl . . . . . Sand and gravel
- △ ss . . . . . Sandstone
- △ scap . . . . . Scapolite
- △ shee . . . . . Scheelite
- △ serp . . . . . Serpentine
- △ sh. . . . . Shale
- △ sid . . . . . Siderite
- △ si . . . . . Silica
- △ Ag . . . . . Silver
- △ sl . . . . . Slate
- △ sm . . . . . Smaltite
- △ sod. . . . . Sodalite
- △ spec . . . . . Specularite
- △ sp. . . . . Sphalerite
- △ spd. . . . . Spodumene
- △ staur. . . . . Staurolite
- △ stib. . . . . Stibnite
- △ st . . . . . Stone
- △ talc. . . . . Talc
- △ Te . . . . . Tellurium
- △ td. . . . . Tetrahedrite
- △ th. . . . . Thorite
- △ Th . . . . . Thorium
- △ thuc . . . . . Thucholite
- △ ti . . . . . Titanite
- △ Ti. . . . . Titanium
- △ tour . . . . . Tourmaline
- △ trap . . . . . Trap rock
- △ W. . . . . Tungsten
- △ uran . . . . . Uraninite
- △ U . . . . . Uranium
- △ verm . . . . . Vermiculite
- △ Y . . . . . Yttrium
- △ Zn . . . . . Zinc
- △ zr . . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Ursa Major (past producer)	Cu, Pb, Au		MRC 1, p. 32 MRC 2, p. 62 MRC 12, p. 321	OBM, 1900, AR VOL. 10, p. 85 OBM, 1921, AR VOL. 30, Pt. 4, p. 19

SANTOY LAKE AREA

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	Canadian Endeavor Mines Inc. F.N.: 2.6188								83	83										
2	Cumberland Resources Ltd. F.N.: 2.6022		83																	
3	Gracey, K. A. F.N.: 2.6509								83	83										
4	Gracey, K. A. F.N.: 2.6503								83	83										
5	Hicks, Orville (Hankin Hicks Bell Group) F.N.: 2.6191								83	83										
6	Hudson Bay Exploration & Development Co. Ltd.				73															
7	Kennco Exploration (Canada) Ltd. F.N.: 2.649									71										
8	Kennco Exploration (Canada) Ltd. F.N.: 2.1221											71	71							
9	Kennco Exploration (Canada) Ltd. F.N.: 2.1221											71	71							

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
10	Keighley, Ernest (Gracey, K. A.) F.N.: 2.6506								83	83										
11	Keighley, Ernest F.N.: 2.6512								83	83										
12	Kistabish, Roland F.N.: 2.6145								83	83										
13	Merryth, F. (Ursa Major Property) F.N.: 2.1110											72	72							
14	Micham Exploration Inc. F.N.: 2.6189, 2.6014, 2.5507	83[1]							83[1]	83[1]		83	83							
15	Monpre Mining Co. Ltd. (Ursa Major Property)							57												
16	Noranda Exploration Co. Ltd. F.N.: 2.5952								83[2]											
17	Noranda Exploration Co. Ltd. F.N.: 2.4617	82																		
18	Royce Ventures Ltd. (Gracey, K. A.) F.N.: 2.6501								83	83										

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
19	Silverhawk Resources Ltd. (Gracey, K. A.) F.N.: 2.6502								83	83										
20	Tecumseh Resources Ltd. (Gracey, K. A.) F.N.: 2.6510								83[1]	83[1]										
21	Young, Seamus (Gracey, K. A.) F.N.: 2.6511								83	83										

Notes:

1. Filed 42 D 15/SW.
2. Filed 42 D 14/NE.

GDIF FORM NO. 2

SANTOY LAKE AREA

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
1	Hudson Bay Exploration & Development Co. Ltd.	B-6-1	Oct./73	360°	-45°	1.0	102.0	py	

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1	Aerodat Limited Canadian Endeavor Mines Inc. F.N.: 2.6188	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres
3	Aerodat Limited Gracey, K. A. F.N.: 2.6509	Magnetic, Electromagnetic, VLF-E.M.	60 metres	East/West	100 metres
4	Aerodat Limited Gracey, K. A. F.N.: 2.6503	Magnetic, Electromagnetic, VLF-E.M.	60 metres	East/West	100 metres
5	Aerodat Limited Hicks, Orville F.N.: 2.6191	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres
7	Lockwood Survey Corporation Ltd. Kennco Exploration (Canada) Ltd. F.N.: 2.649	Electromagnetic.	200-250 feet	NNE/SSW	1000 feet
10	Aerodat Limited Keighley, Ernest F.N.: 2.6506	Magnetic, Electromagnetic, VLF-E.M.	60 metres	East/West	100 metres
11	Aerodat Limited Keighley, Ernest F.N.: 2.6512	Magnetic, Electromagnetic, VLF-E.M.	60 metres	East/West	100 metres
12	Aerodat Limited Kistabish, Roland F.N.: 2.6145	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres

GDIF FORM NO. 4

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
14	Aerodat Limited Micham Exploration Inc. F.N.: 2.6189	Magnetic, Electromagnetic, VLF-E.M.	60 metres	North/South	100 metres
16	Questor Surveys Limited Noranda Exploration Co. Ltd. F.N.: 2.5952	Magnetic.	120 metres	North/South	250 metres
18	Aerodat Limited Royce Resources Ltd. (Gracey, K. A.) F.N.: 2.6501	Magnetic, Electromagnetic, VLF-E.M.	60 metres	East/West	100 metres
19	Aerodat Limited Silverhawk Resources (Gracey, K. A.) F.N.: 2.6502	Magnetic, Electromagnetic, VLF-E.M.	60 metres	East/West	100 metres
20	Aerodat Limited Tecumseh Resources Ltd. (Gracey, K. A.) F.N.: 2.6510	Magnetic, Electromagnetic, VLF-E.M.	60 metres	East/West	100 metres
21	Aerodat Limited Young, Seamus (Gracey, K. A.) F.N.: 2.6511	Magnetic, Electromagnetic, VLF-E.M.	60 metres	East/West	100 metres

GDIF FORM NO. 4

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
1	Soil Geochemistry	Ag, Cd, Co, Cu, Mn, Mo, Pb, Ni, Sr, Zn, As, Sb, U, Th, B, Bi, V, Al, Ca, Fe, K, Mg, Na, P	Cumberland Resources Ltd.	Regional Geologist's Assessment Files, Thunder Bay, F.N.: 2.6022

GDIF FORM NO. 5

SAMTOY LAKE AREA

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Thunder Bay

Cumberland Resources Limited

Hudson Bay Exploration & Development Company

Micham Exploration Inc.

Noranda Exploration Company Limited

ODM GENERAL INDEX SEARCH

Words searched: Cairngorm Lake, Larry Lake, Monpre Mining Co. Ltd., Santoy Lake, Steel River, Ursa Major Mine.

Index Volume	Listing:	Report Volume	Part	Page
1	Steel River, Lake Superior			
	Animikie	4		238
	Moraine	R.C.		50
	Rapids, photo	9		112, 113
	Power	7		252
	Ursa Major Gold Mine, near Jackfish Bay, Lake Superior			
	Depth (1899)	9		35
	Notes (1898)	8		95
	(1899)	9		83, 84
	(1900)	10		85, 86
	Photos	9		112, 113
	Position	N.O.		138
2	Steel River, joins Lake Superior East of San Toy			
	Falls, photo	30	4	25
	Pebbles for grinding	30	4	26
	Ursa Major Gold Mine, North of Jackfish Bay Lake Superior			
	Description; development	30	4	19
	Location, see map	30	4	7
	Producing	30	2	39
	Rocks	30	4	17
5	Monpre Uranium Exploration Ltd.			
	Incorporated	63	1	58
8	Cairngorm Lake Area, Thunder Bay District			
	Geology of The Jackfish-Middleton Area	GR 50		
	Larry Lake			
	Jackfish-Middleton Area, Thunder Bay District	GR 50		9, 13, 24, 30, 32
	Santoy Lake			
	Township 81, Thunder Bay District	GR 50		4-33

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Steel River Township 81, Thunder Bay District	GR 50		13-36
	Ursa Major Mine Jackfish Area, Thunder Bay District	GR 50 MRC 12		34 321

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Ayres, L. D., Lumbers, S. B., Milne, V. G., Robeson, D. W.	1971	Ontario Geological Map, West Central Sheet.	ODMNA Map 2199	1 inch to 16 miles
Carter, M. W., McIlwaine, W. H., Wisbey, P. A.	1973	Nipigon-Schreiber, Thunder Bay District, Ontario, Geological Compilation Series. Related Maps 2137, P-357, P-358, P-360.	ODM Map 2232	1 inch to 4 miles
		GEOLOGICAL MAPS AND REPORTS		
Bell, R.	1872	Report on the Country North of Lake Superior between the Nipigon and Michipicoten Rivers, Ontario.	GSC, Report of Progress 1870-1871 Pt. VIII	
Bell, R.	1872	Report on the Country between Lake Superior and the Albany River, Ontario.	GSC, Report of Progress 1981-1872 Pt. III	
GSC	1935	Lake Nipigon Sheet, Ontario.	GSC Map 308A	1 inch to 8 miles
Mason, J. K.	1981	Cairngorm Lake (South) Area, NTS 42 D 15/NW, Thunder Bay District, Ontario, Thunder Bay Data Series.	OGS Map P-2148	
Parks, W. A.	1902	The Country East of Nipigon Lake and River.	GSC, Annual Report Vol. XIV, Pt. A	pp. 105-109
Sage, R. P.	1982	Mineralization in Diatreme Structures, North of Lake Superior, NTS 42 D/N, Ontario.	OGS Study 27	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Tanton, T. L.	1921	Nipigon-Schreiber District, Ontario.	GSC, Summary Report 1920, Pt. D	pp. 2-7
Walker, J. W. R.	1956	Preliminary Report on the Geology of the Jackfish-Middleton Area, NTS 42 D/N, 42 E/S, Thunder Bay District, Ontario.	ODM Geological Circular 4 (Study 4)	
Walker, J. W. R.	1967	Geology of the Jackfish-Middleton Area, District of Thunder Bay, Ontario. Accompanied by Map 2107 and Map 2112.	ODM GR 50	2 inches to 1 mile
Wilson, W. J., Collins, W. H.	1909	Geological Reconnaissance of a Portion of Algoma and Thunder Bay Districts, Ontario, and Report on the Region Lying North of Lake Superior between the Pic and Nipigon River, Ontario. Accompanied by Map 964.	GSC Separate Report 980, 1081	
		GEOPHYSICAL MAPS AND REPORTS		
ODM - GSC	1963	Aeromagnetic Map, Ashburton Bay (42 D 15).	GSC Map 2147G	1 inch to 1 mile
ODM - GSC	1965	Aeromagnetic Map, Schreiber (42 D).	GSC Map 7088G	1 inch to 4 miles
ODM - GSC	1970	Albany River, Algoma, Cochrane, Kenora, Sudbury, Thunder Bay and Timiskaming Districts, Ontario. Aeromagnetic Compilation Map.	ODM Map P-578	1 inch to 16 miles

GDIF FORM NO.8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOCHEMICAL MAPS AND REPORTS		
GSC - OGS	1978	Field Operations and Analytical and Statistical Data of Regional Lake Sediment and Water Geochemistry, Schreiber and Part of Longlac, NTS 42 D, 42 E, Thunder Bay District. Accompanied by Maps P-1805 to P-1818.	OGS - OFR 5248	
GSC	1981	National Geochemical Reconnaissance Coloured Compilation Map Series; Lake Superior, Ontario.	GSC - OFR 746	1:2,000,000
		MINERAL POTENTIAL MAPS		
Springer, J. S.	1978	Ontario Mineral Potential, Schreiber Sheet, NTS 42 D, Thunder Bay District, Ontario.	OGS Map P-1520	1:250,000
Springer, J. S., et al	1982	Mineral Potential Map of Ontario West Central Sheet, NTS 41/NW, 42/W, 43/SW, 52, 53/SE.	OGS - OFR 5326	
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Gartner, J. F., McQuay, D. F.	1979	Northern Ontario Engineering Geology Terrain Study 60, Heron Bay Area, NTS 42 D/NE, Thunder Bay, Ontario. Accompanied by Map 5093.	NOEGTS 60	1:100,000
Surveys and mapping Branch Department of Energy, Mines and Resources		Topographic Map, Coldwell, Thunder Bay, Ontario (42 D 15).		1:50,000
Zoltai, S. C.	1965	Thunder Bay Surficial Geology, NTS 42 D, E, L, 52 A, H, I, Ontario.	ODLF Map S2-65	1 inch to 8 miles

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Zoltai, S. C.	1967	Glacial Features of the North-Central Lake Superior Region, Ontario.	Canadian Journal of Earth Sciences Vol. 4, No. 2	pp. 515-528

GDIF FORM NO.9

NOTES AND ADDENDA

GDIF FORM NO.10

87° 00'

49° 00'

16

Lake

7, 16

16

River

Coringorm

9

9

17

Larry Cr

16→

86° 45'

49° 00'

16

17

16→

4, 17

3

4

3, 17

Ontario

Ministry o
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ONTARIO GEOLOG

PROPERTY LOC

GEOLOGICAL DATA INV

(Map 1

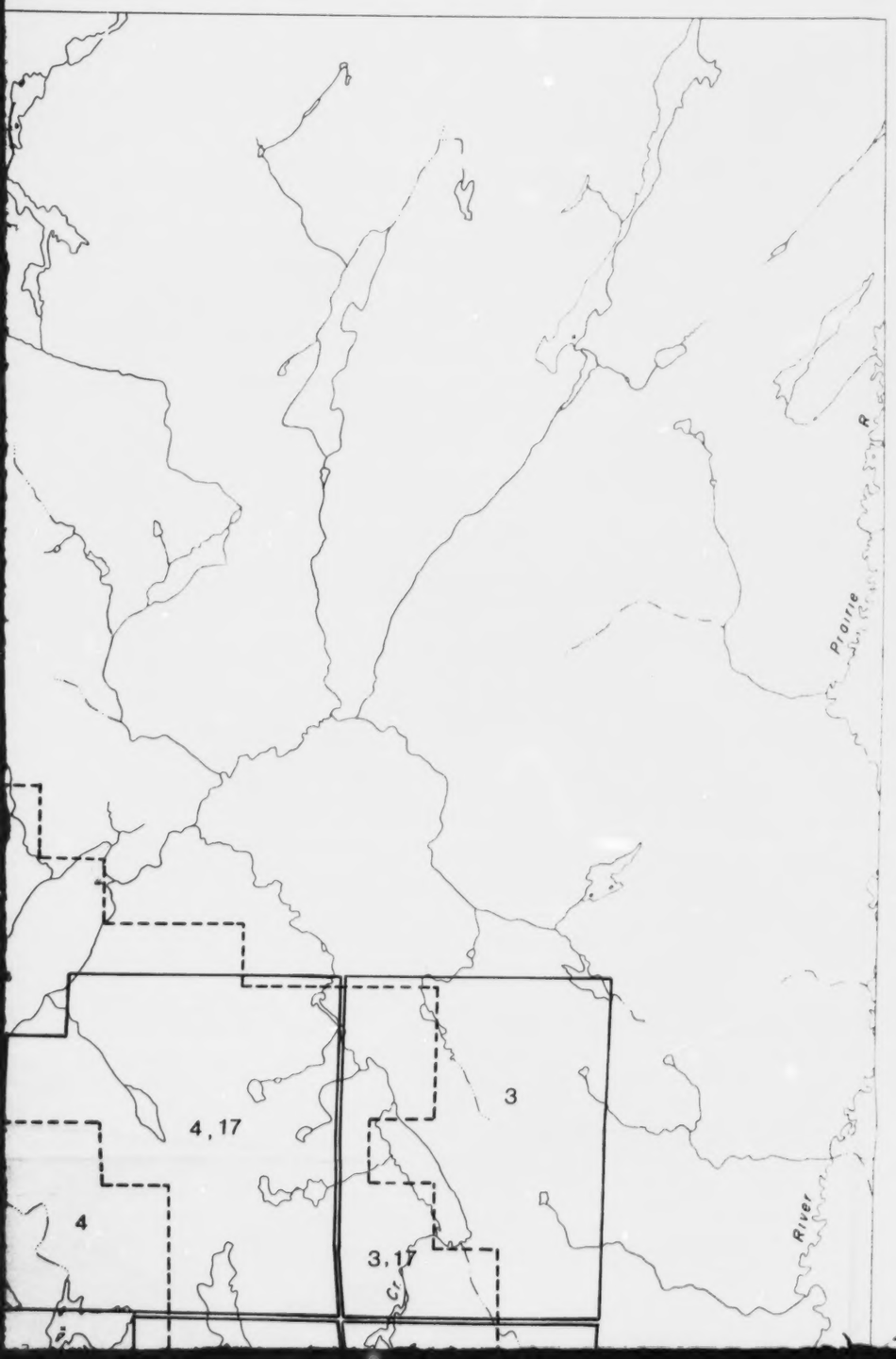
SANTOY LA

DISTRICT OF T

Scale 1:3

Mile 0 5 0

Kilometre 0 5 0



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Ontario

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 203

(Map **1** of **2**)

SANTOY LAKE AREA

DISTRICT OF THUNDER BAY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

9

Owl Cr

Larry Cr

16→

Steel

7→

7

7

Diablo Cr

Diablo Cr

12

1

6

12, 6

Diablo

Santoy

13 & 15

14

6

5, 6

8

8, 5, 6

8, 5

Lake

Lake

Pack L

McCraig L

2

14

5

7

Little Davidson Lake

5

Fishnet L

48° 52' 30"

87° 00'

9

16→

7→

Diablo Cr

Diablo Cr

Diablo

Lake

Lake

Santoy

Steel

Lonz Cr

Lonz Lake

4, 17

4

3

3, 17

21, 17

10, 17

10

21

18

11

19

20

19, 7

20, 7

2

7

7

Fishnet

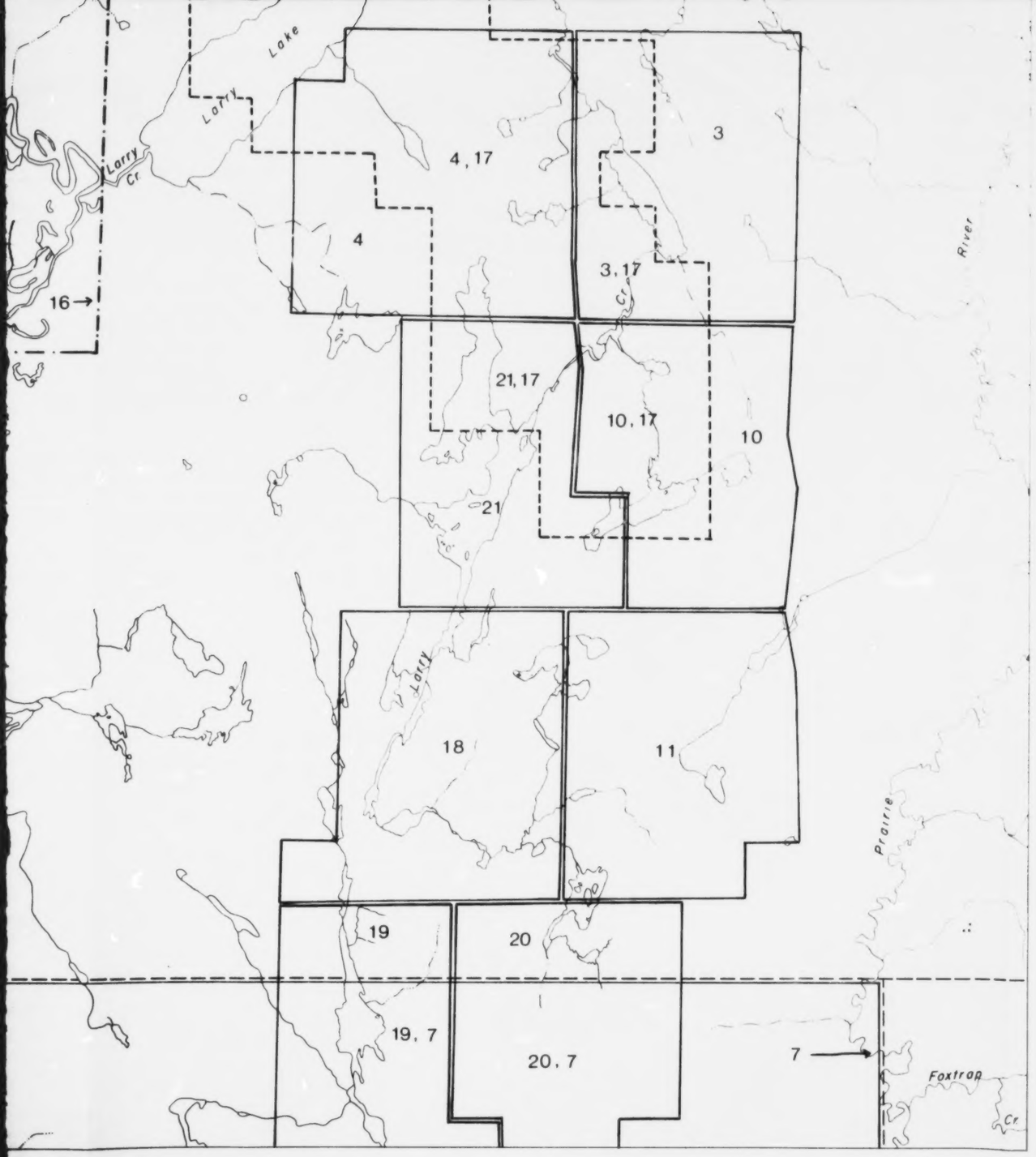
Prairie

Foxtrap Cr

River

48° 52' 30"

86° 45'



EXPLORATION DATA FILE AREAS

☒ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.

☐ x ④ Small area of exploration.

☐

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- ☐ Geochemical sample site, with reference number
- ☒ Area of geochemical sampling, with reference number
- ☐ Age dating material sampling site, with reference number
- ☐

GEOPHYSICAL ANOMALIES

- ☒ AM — Airborne Magnetometer Anomaly
- ☐ Airborne Electromagnetometer Anomaly
  Length of anomaly along flight line
- ☐ Airborne Electromagnetometer Anomaly.
  Location of anomaly along flight line
- ☐ Airborne Electromagnetometer Anomaly
  Conductor Axis: definite, probable, possible
- ☐ ARA — Airborne Radiometric Anomaly
- ☒ M — Ground Magnetometer Anomaly
- ☒ VL — Ground Electromagnetometer Anomaly
  (VL - Vertical Loop; HL - Horizontal Loop;
  VLF - Very low freq; Turam; JEM -
  Crone EM - 16)
- ☐ RA — Ground Radiometric Anomaly
- ☐ IP — Induced Polarization Anomaly
- ☐ SP — Self Potential Anomaly
- ☐ AFMAG — Audio-frequency magnetometer anomaly

87° 00'

49° 00'

AEM

Lake

Cairngorm

AM

AEM

M

VL

AEM

AM

AEM

M

VL

AEM

AM

AM

River

AM

AM

Larry Lake

Larry Cr

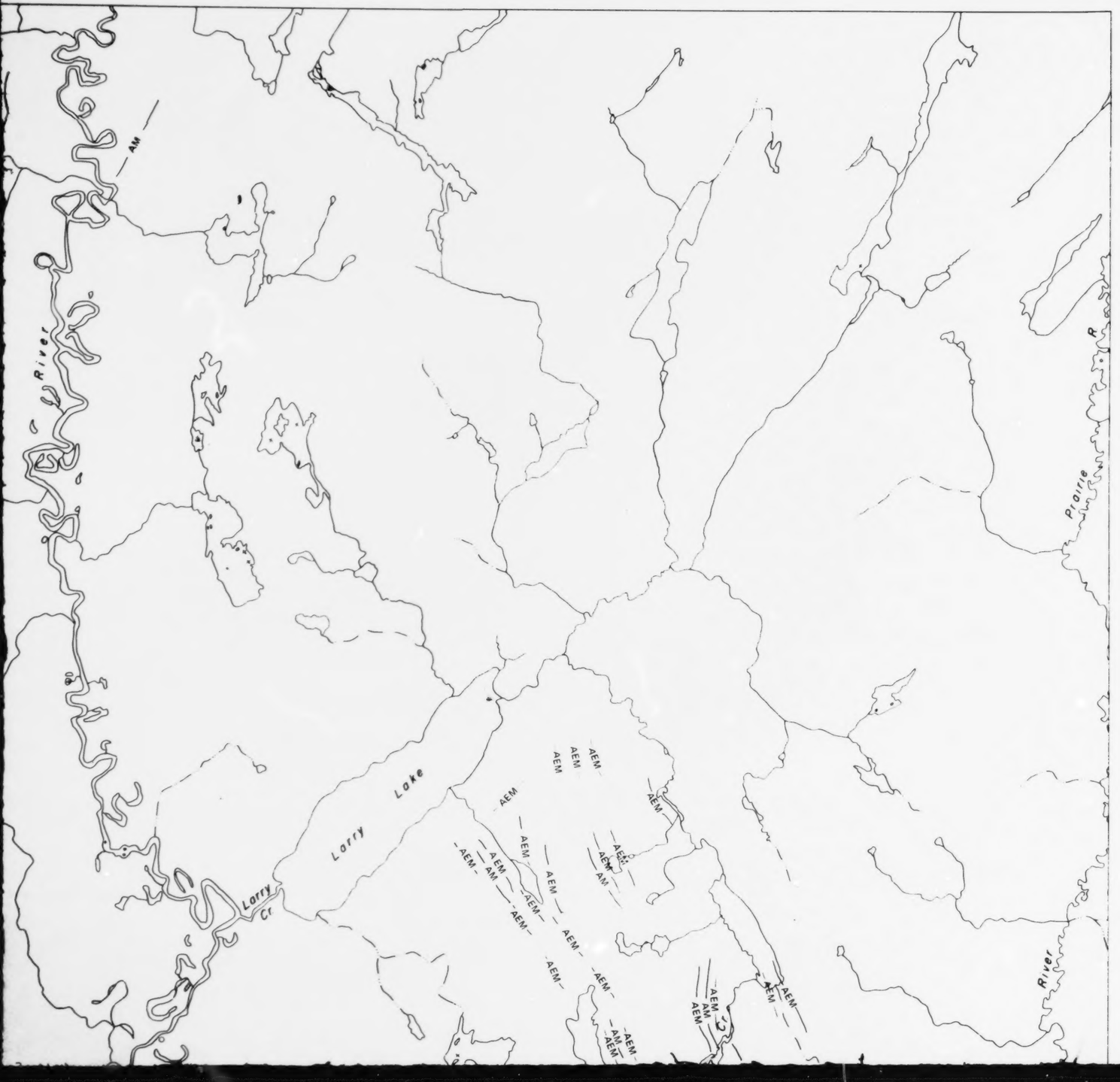
AEM

AEM

AEM

86° 45'

49° 00'



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ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 203

(Map **2** of **2**)

SANTOY LAKE AREA

DISTRICT OF THUNDER BAY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ☐ cp A. — Mineral occurrence at surface, with reference letter
- ☒ Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- ☐ Ag ? A. — Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ cp A. — Mineralized Float with reference letter

Conductor Axis: definite, probable, possible

☐ ARA — Airborne Radiometric Anomaly

☒ M — Ground Magnetometer Anomaly

☒ VL — Ground Electromagnetometer Anomaly
(VL - Vertical Loop; HL - Horizontal Loop;
VLF - Very low freq; Turam; JEM -
Crone EM - 16)

☐ RA — Ground Radiometric Anomaly

☐ IP — Induced Polarization Anomaly

☐ SP — Self Potential Anomaly

☐ AFMAG — Audio-frequency magnetometer anomaly
(total intensity)

☐ R — Resistivity Anomaly

☐ GR — Gravity Anomaly

☒ AEM — Airborne Electromagnetometer Anomaly

MISCELLANEOUS DATA

☐ Trenching, pit

☐ Adit

☐ Open pit

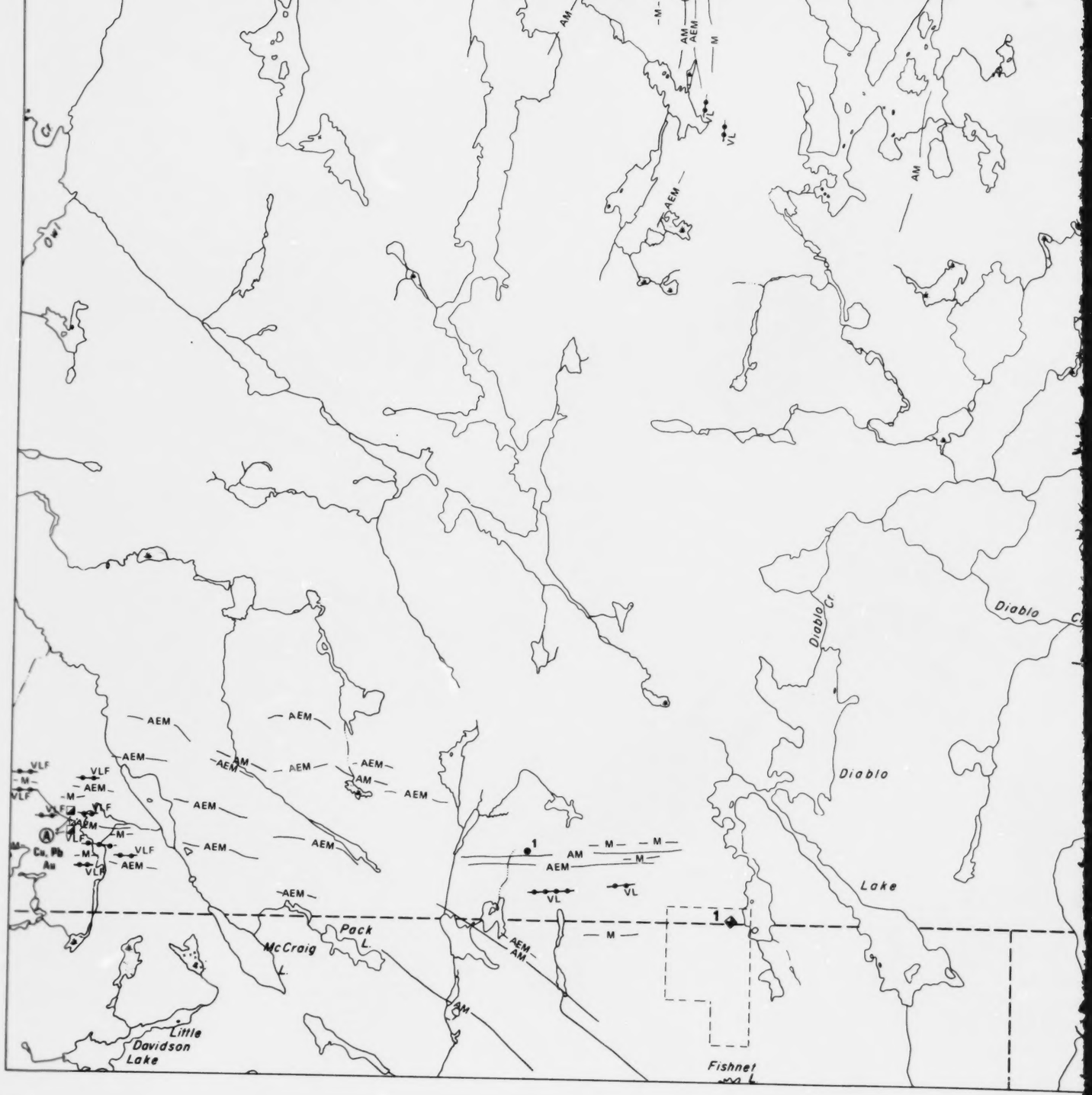
☐

☐ Rock quarry

☐ Sand and/or gravel pit

☐

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



48° 52' 30"

87° 00'

Larry Lake

Larry Cr

Steel

Diablo Cr

Diablo Cr

Diablo

Lake

Santoy

Lake

Pack L.

Fishnet L.

Prairie

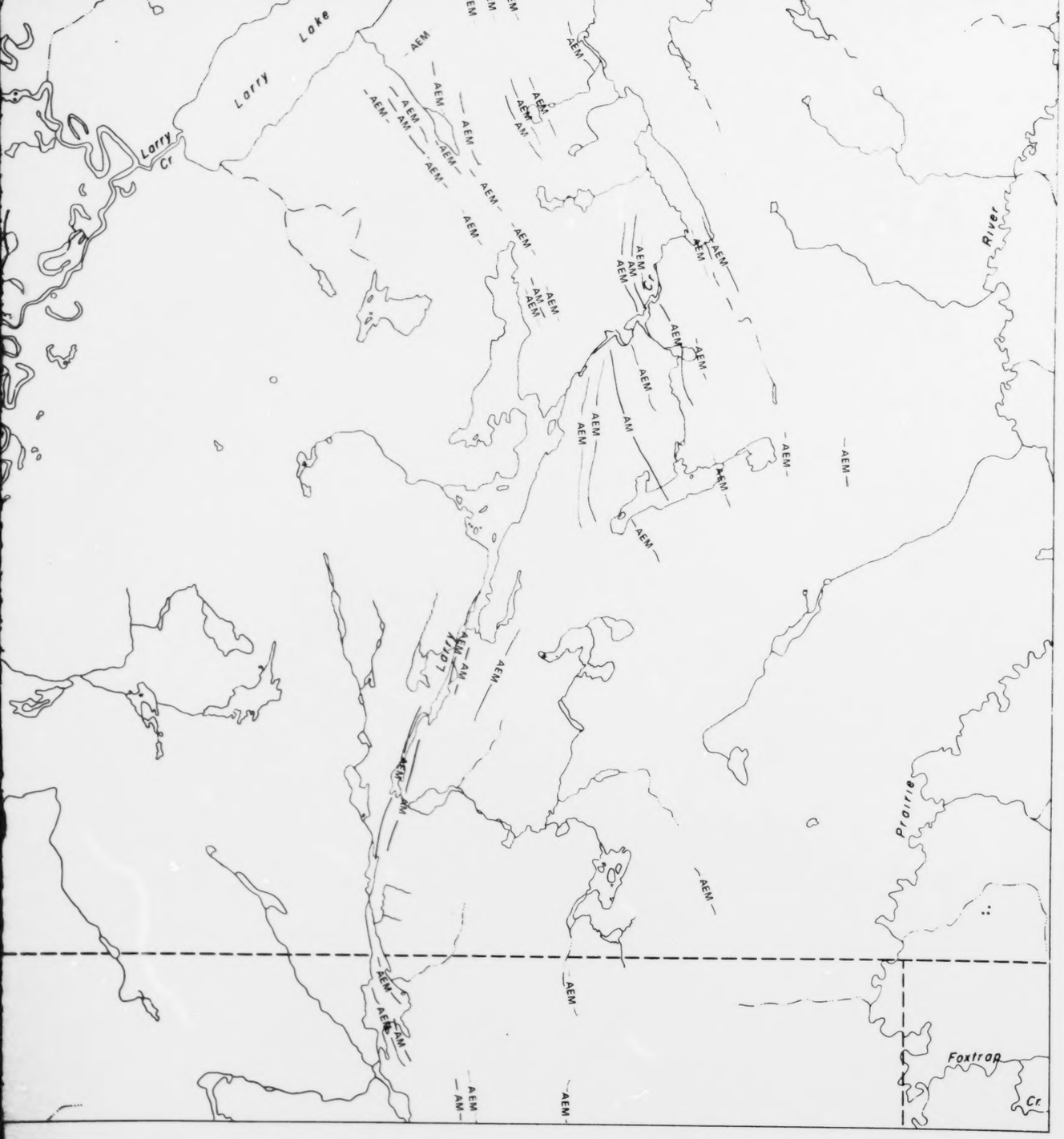
AEM

AM

M

VL

1



MINERAL OCCURRENCES

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- Ag ? A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized Float with reference letter

DRILL HOLES

- ●² — Location of single drill hole, with reference number
- ◉² — Location of closely spaced group of drill holes, with reference number
- (?)² — Drill hole, exact location uncertain, with reference number.
- Property with underground drill holes in this general area, with reference number
- ○² — Property with drill holes which have not been plotted on map, with reference number
- ⊕² — Reverse Circulation Drill Hole; Churn drilling, with reference number

48° 52' 30"

86° 45'